

July 6-12, 2000

Terra spacecraft operations for the past week were nominal. On day 193 (July 11) a Master Oscillator frequency adjust was performed successfully and another adjust was conducted on day 194. The Master Oscillator Frequency Table was loaded successfully. The Navigation adjust command was sent and the Navigation Flight Software was updated with new clock data, including the offset and drift values. The TONS Filter performed nominally throughout the sequence.

MOPITT experienced a yellow-limit violation on MOP_TR_COOL_DISP2 (< 17.5°C; Celsius) after coolers were turned off. MOPITT explained that the baseplate temperature was lowered to an expected value of 2°C but a yellow out-of-limit condition would occur because the factory limit settings were still configured for a temperature of 18°C.

Unrecoverable data loss for MODIS occurred on Day 193 due to PBFLEX process incorrectly flagging the need for partial playback of MODIS data.

Several late acquisitions occurred this week due to Single Event Upset hits on the High Gain Antenna Motor Drive Assembly. No data loss occurred (data delay only).

The flight operations team is continuing to work the direct broadcast interference issues with JPL.

Terra Plans:

A MODIS Calibration Attitude Maneuver for the Space View Door stepping event (to help with Focal Plan temperature issue) is scheduled for July 14.

There will be a MODIS Roll Maneuver on July 21 (2003/12:07:18 - 12:25:20)

There are MISR Field Campaigns scheduled for July 13, 16, and 17; and ASTER Field Campaigns scheduled for July 14, 18, and 19.

A Drag Make-up Maneuver is planned for August 2.

